1. A Pythagorean triple is a set of three numbers that…

**A.** can be written as the sides of a right triangle.

**B.** satisfy the equation 

**C.** both A & B

**D.** neither A nor B

2. In the Pythagorean triple (*a,b,c*), what is special about the value of *c*?

**A.** It is always even.

**B.** It is always the largest of the three.

**C.** It is always the smallest of the three.

1. It is always odd.

3. In the Pythagorean triple (*a,b,c*), what is special about the values of *a* and *b*?

**A.** They are the two long sides of a right triangle.

**B.** They are always equal to each other.

**C.** They are the two short sides of a right triangle.

**D.** *a* is always bigger than *b*.

4. Which of the following triples is a Pythagorean triple?

**A.** (5, 12, 17)

**B.** (4, 5, 6)

**C.** (9, 40, 41)

**D.** (8, 10 18)

5. Which of the following is not a Pythagorean triple?

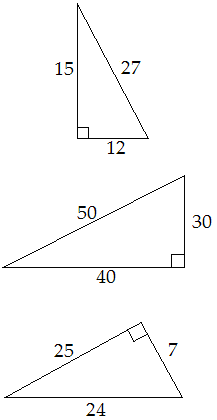
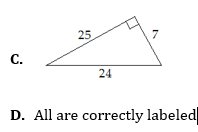
**A.** (7, 24, 25)

**B.** (55, 48, 73)

**C.** (12, 35, 37)

**D.** (33, 55, 65)

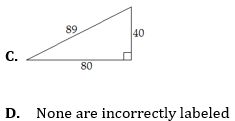
6. Which of the following triangles is correctly labeled?

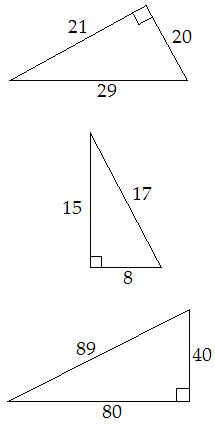


**A.**

**B.**

7. Which of the following triangles is incorrectly labeled?



**A.**

**B.**

8. If 7 and 12 are two parts of a

Pythagorean triple, what is the value of the third part to one decimal place?

**A.** 13.9

**B.** 9.7

**C.** Neither 13.9 nor 9.7

**D.** Both 13.9 and 9.7

9. Find the value of *b* that completes the Pythagorean triple: 

**A.** 

**B.** 

**C.** 

**D.** 

10. A window frame that looks

rectangular has a width of 295 cm and a height of 410 cm. The window’s diagonal is 512 cm. Is the window truly rectangular?

**A.** Yes

**B.** No – the diagonal is too large

**C.** No – the diagonal is too small

**D.** Not enough information to tell